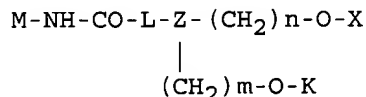


CLAIMS LISTING 10/11/2004

What is claimed is:

1. (currently amended) A labelling reagent having the structure



in which

[[-]]M is a detectable label,

[[-]]L represents a linker having the structure $\text{-(CH}_2\text{)}_p\text{-}$ or the structure $\text{-(CH}_2\text{)}_p\text{-CO-NH-}$,

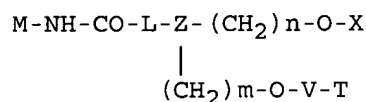
[[-]]Z is either CH or N,

[[-]]X is a cleavable protective group,

[[-]]n, m and p are, independently of one another, natural numbers from 1-15, and

[[-]]O-K is either a phosphoramidite, or ~~K = V-T, such that T is a solid phase support material and V is a linking group containing a cleavable bond.~~

2. (currently amended) A labelled reactive support having the structure



in which

[[-]]M is a detectable label,

[[-]]L represents a linker having the structure $\text{-(CH}_2\text{)}_p\text{-}$ or the structure $\text{-(CH}_2\text{)}_p\text{-CO-NH-}$,

[[-]]Z is either CH or N,

[[-]]X is a cleavable protective group,

[[-]]n, m and p are, independently of one another, natural numbers from 1-15,

CLAIMS LISTING 10/11/2004

[[-]]T is a solid phase support material, and

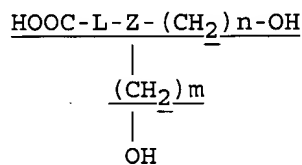
[[-]]V is a linking group which contains a cleavable bond.

3. (canceled)
4. (original) A support as claimed in claim 2, wherein the support material consists of glass particles having a defined pore size.
5. (currently amended) A support as claimed in claim 2, wherein the detectable label M is a fluorescent dye, ~~preferably fluorescein~~.
6. (canceled)
7. (currently amended) A process for the production of a labelled reactive support ~~as claimed in claims 2-5~~, comprising the following steps:
 - a) ~~preparing~~ providing a trifunctional spacer containing two reactive hydroxyl groups and one reactive amino group,
 - b) introducing a protective group on ~~a~~ one of the hydroxyl groups,
 - c) providing a molecule having the structure M-NH-CO-(CH₂)_p-COOH in which p represents a natural number between 1 and 15 and M is a detectable label and converting the carboxylic acid group of a ~~the~~ molecule as ~~claimed in claim 6~~ into an activated ester,
 - d) coupling the activated ester to the reactive amino group of the trifunctional spacer, and
 - e) coupling the hydroxyl group of the trifunctional spacer which is still free to the support material, thereby forming the labelled reactive support.
8. (canceled)

CLAIMS LISTING 10/11/2004

9. (currently amended) A process for the production of a labelled reactive support as claimed in claims 2-5, comprising the following steps:

- f) ~~preparing~~ providing a trifunctional spacer ~~using the method of claim 8~~ having the structure



in which

Z is either CH or N,

L is a linker having the structure -(CH₂)_p- or the structure -(CH₂)_p-CO-NH-, and

m, n and p are, independently of one another, a natural number between 1 and 15,

- g) ~~introducing the~~ a protective group on a one of the hydroxyl groups,
- h) converting the carboxylic acid group of the trifunctional spacer into an activated ester,
- i) coupling a detectable molecule containing a free amino group by reacting the active ester with the amino group, and
- j) coupling the second of the hydroxyl groups that is still free to the support material, thereby forming the labelled reactive support.
10. (canceled)
11. (canceled)
12. (canceled)
13. (canceled)
14. (currently amended) ~~A~~ The labelling reagent as claimed in claim 13 claim 1, wherein the detectable label M is a fluorescent dye, ~~preferably fluorescein.~~
15. (canceled)

Serial no. 09/943,411

Attorney docket: RDID 0096

CLAIMS LISTING 10/11/2004

16. (canceled)

17. (canceled)